

1190 Albany Avenue  
Brooklyn, New York 11203  
May 28, 1984

The Arcadian  
3626 Morrie Drive  
San Jose, California, 95127

Dear Robert Jabris:

Enclosed is a tape with the math tutor program that I mentioned in my last letter to you. It's in Astro-Basic, 1.8k. The instructions are in the program and can be called from the keypad.

I can not advertise for the month of June (Horse Code Trainer, etc.) as I will not be available to make up additional tapes and documentation. I've left enough to cover any projected demand, which incidentally, has dropped off significantly. When I return, I will prepare a sale to see if demand can be stimulated.

Whatever happens, in terms of sales, I hope to continue to support the Arcadian with programs. I'm working on another one that I will polish off when I return. In the meantime, I'm sure your readers will enjoy the enclosed Fraction Tutor. Because it only deals with whole numbers, it is ideally suited for Tiny Basic. Also the large typestyle of the Astrocade provides for an appealing display that even the younger students can enjoy. Finally, the program is a welcome departure from the usual addition/subtraction tutors. Until next time...

Sincerely,

  
Fred Rodney

\*FRACTION/STUDY by Fred Rodney, 1984  
1190 Albany Avenue; Brooklyn, N. Y.  
11203

The instructions are REM statements that follow the program. To access them enter RUN GO, and press 0, as selected level. Simple tests of divisibility for quick mental computations follow: A number is divisible by

```

35 . BY THE HIGHEST COMMON
36 . DIVISOR. (OR FACTOR)
37 .
38 . THE DIVISOR MUST BE A
39 . POSITIVE WHOLE NUMBER
40 .
41 . ←PRESS KEY TO GO ON)
42 . →RANGE OF A&B VALUES:
43 . 1 TO 9 (LEV. 1)
44 . 1 TO 99 (LEV. 2)
45 . 1 TO 999 (LEV. 3)
46 .
47 . YOUR SCORE IS THE
48 . PERCENTAGE OF RIGHT
49 . ANSWERS. YOU NEED 10
50 . RIGHT TO SCORE.
51 .
52 . →(PRESS KEY TO BEGIN)
53 . G O O D L U C K !
54 .

```

2 if the last digit is even.  
3 if the sum of the digits until one remains is divisible by 3.  
4 if the last two digits are divisible by 4.  
5 if the last digit is 0 or 5.  
6 if 2 and 3 are.  
7 if .. ? (no easy rules).  
8 if the last 3 digits are divisible by 8.  
9 if the sum of the digits until one remaining is 9.  
10 if it ends in zero.

```

-30
21 IF X=A BC=198;Q=Q+1;CX=
-65;Print Q," RIGHT!";NT=6
;MU=49;MU=50;MU=51;NT=12;M
U=53;NT=6;MU=51;NT=18;Goto
23
22 BC=54;NT=18;MU=77;NT=36
;MU=5;NT=0;R=R+1;S=S+1;If
R=1Print " NO! TRY AGAIN"
;Gosub 8;Box -30,-30,80,9,
2;Goto 20
23 MU=53;NT=0;CY=38;Print
" HERE";CX=40;Print "X=",#
1,A
24 CY=4;CX=3-3XN;Print "="
;CY=10;CX=6;Print Y+A;Lin
e 38,4,4;Line 38-6XN,4,1;C
Y=-3;CX=6;Print Z+A
25 Gosub 8;Clear ;If QX10G
oto 12
26 &(9)=50;&(10)=150;CY=10
;Print " <YOUR SCORE IS:
",#1,1000+(Q+S);If RM Pr
int " ",#1,10XRM+(+S)+ (RM
>5),
28 Print "%>";CY=-35;NT=7;
Print "1010123032345000";N
T=0;V=KP;Clear ;BC=7;&(10)
=180;Goto 10
30 Clear ;&(9)=50;BC=7;CY=
20;CX=-41;Print "FRACTION/
STUDY";CY=0;Print " BY F
RED RODNEY, 1984";Print ;
STOP
31 . SOME FRACTIONS MAY BE
32 . SIMPLIFIED OR REDUCED
33 . BY DIVIDING THE NUME-
34 . RATOR AND DENOMINATOR

```

```

1 Clear ;&(9)=-10;NT=0;Go
sub 9;CX=40;Print "X=";CY
=10;CX=-32;Print "A";CX=2
5;Print "A+X";CY=-3;CX=-32
;Print "B";CX=25;Print "B
+X
2 CY=4;CX=-3;Print "=";Li
ne -30,4,4;Line -36,4,1;Li
ne 21,4,4;Line 39,4,1;NT=8
;MU=108;MU=49;MU=49;MU=53;
MU=53;MU=52;MU=51
3 MU=50;MU=49;MU=49;MU=49
;MU=50;MU=51;MU=52;NT=24;M
U=53;NT=0;Gosub 8;Clear ;G
oto 10
8 For L=0 To 1999;Next L;R
eturn
9 CY=38;Print " FIND THE
HIGHEST COMMON";Print " DI
VISOR (FACTOR)";Return
10 &(9)=50;Q=0;S=0;CY=9;Pr
int " SELECT LEVEL: 1,2 0
R 3";CY=-9;Print "PRESS <0
> FOR INSTRUCTIONS
11 N=KP-48;If (N<0)+(N>3)G
oto 10
12 If N=0Clear ;S=4;&(0)=
7;&(1)=7;&(2)=0;&(3)=0;BC=
0;&(9)=70;list 31;SM=0;Gos
ub 8;BC=7;Run
13 BC=239;I=9X(N=1)+99X(N=
2)+999X(N=3);A=Rnd (M);B=R
nd (M);If A>B G A;A=B;B=C
14 R=0;Y=A;Z=0;Clear ;&(9)
=-10;CY=10;Print A;Line -3
3,4,4;Line -33-6XN,4,1;CY=
-3;Print B;Gosub 9
16 C=B+A;If R= B=A;A=R;Go
to 16
20 CY=30;CX=40;Input X;CY=

```